

Amendments to the Claims:

This listing of claims replaces all prior listings, and versions, of claims in the present application.

Listing of Claims:

1. (Currently Amended) A method comprising:
receiving an electronic document represented by serial data that contains content of the document and defines an order in which respective portions of the content are to be presented on a display for viewing,
analyzing the serial data of the electronic document by at least one transformation module to determine an order of presentation of the portions of the content different from the order defined by the serial data, the different order of presentation being adapted based upon a performance capability of a display of a target device, and
generating, via a processor, reorganization information for use in delivering the portions of the content, the reorganization information enabling presentation of the portions in the different order, wherein generating the reorganization information includes applying a hyperlink to the portions of content, the application of the hyperlink being performed in response to determining that a location of the hyperlink is separated by at least a predetermined distance from a destination location to which the hyperlink points. ~~the reorganization information includes a hyperlink being to be~~ displayed near the beginning of a first sub-document of the portions in the different order, the destination location of the hyperlink being hyperlink pointing to a location of a particular portion of the content that is not at a beginning of the order defined by the serial data, and the destination location being determined based on the content of the serial data and without regard to the ordering of the portions.
2. (Original) The method of claim 1 in which the serial data representing the electronic document is expressed in a markup language.

3. (Original) The method of claim 2 in which the mark-up language comprises a hypertext markup language.

4. (Original) The method of claim 2 in which the serial data representing the electronic document is expressed in an electronic mail format.

5. (Original) The method of claim 4 in which the electronic mail format includes a header and a main body.

6. (Original) The method of claim 4 in which the analyzing includes determining the start of the main body.

7. (Original) The method of claim 3 in which the hypertext markup language comprises Html.

8. (Original) The method of claim 3 in which the markup language comprises PDF, postscript, SGML, Powerpoint, rich text, or unformatted text.

9. (Original) The method of claim 1 in which the content of the document includes at least one of the following: text, images, tables, frames, and headings.

10. (Previously Presented) The method of claim 1 in which the different order in which the respective portions of the content are to be presented includes a two-dimensional layout.

11. (Original) The method of claim 1 in which the reorganization information includes an identification of a relative importance of the respective portions of the content.

12. (Original) The method of claim 11 in which the reorganization information includes an identification of a main block of text.

13. (Original) The method of claim 12 in which the analyzing includes finding an annotation inserted in the electronic document as a marker of the location of the main block of text.

14. (Previously Presented) The method of claim 1 in which the reorganization information associates a revised order for presentation with at least some of the portions of content.

15. (Canceled)

16. (Canceled)

17. (Previously Presented) The method of claim 1 in which the reorganization information causes an automatic redirection from the first portion of the content to a later portion of the content when the document is opened for presentation by directing a user to the later portion in response to opening of the document.

18. (Canceled)

19. (Previously Presented) The method of claim 1 in which the different order of presentation enabled by the reorganization information is adapted for a display that has a more restricted performance capability than does the performance capability of the display for which the document was originally designed.

20. (Original) The method of claim 19 in which the more restricted display is part of a mobile phone or personal digital assistant, and the display for which the document was

originally designed comprises a desktop computer monitor.

21. (Previously Presented) The method of claim 1 in which presentation of the portions of the content comprises presenting the portions by speech synthesis.

22. (Previously Presented) The method of claim 1 in which analyzing includes identifying one of the portions as containing main content of the document.

23. (Previously Presented) The method of claim 22 in which generating includes inserting the hyperlink to point to the beginning of the main content portion.

24. (Previously Presented) The method of claim 22 in which generating includes moving the main content portion to near the beginning of the document.

25. (Previously Presented) The method of claim 22 in which generating includes altering the document so that the main content portion appears first when the document is presented.

26. (Original) The method of claim 1 in which analyzing includes identifying portions of the document that should not be separated in generating the reorganization information.

27. (Original) The method of claim 26 in which the portions that should not be separated include at least one of the following pairs: heading and text, image and caption, or paragraph and related paragraph.

28. (Original) The method of claim 1 in which analyzing includes identifying portions of the document that should not be moved relative to other portions of the document.

29. (Original) The method of claim 1 in which analyzing includes identifying portions of the document that should be moved relative to other portions in generating the reorganization information.

30. (Original) The method of claim 29 in which the portions that should be moved comprise images or tables.

31. (Original) The method of claim 1 in which analyzing includes identifying regions according to functions.

32. (Original) The method of claim 31 in which the functions include navigation and content.

33. (Original) The method of claim 1 in which the analyzing includes converting the document to a tree format.

34. (Previously Presented) The method of claim 1 in which the analyzing includes blocking major regions of the document by dividing the major regions into respective blocks.

35. (Original) The method of claim 1 in which the analyzing includes counting characters of text.

36. (Currently Amended) A method comprising:
receiving a request from a remote device for a portion of a document represented by serial data that contains content of the document and defines an order in which respective portions of the content are to be presented on a display for viewing, and in response to the request,

analyzing the serial data of the electronic document by at least one transformation module to determine an order of presentation of the portions of the content different from the

order defined by the serial data, the different order of presentation being adapted based upon a performance capability of a display of a target device, and

returning at least one and fewer than all of the portions of the content using reorganization information that enables presentation of the portions in the different order, wherein returning at least one and fewer than all of the portions of the content includes applying a hyperlink to the portions of content, the application of the hyperlink being performed, via a processor, in response to determining that a location of the hyperlink is separated by at least a predetermined distance from a destination location to which the hyperlink points, the reorganization information includes a hyperlink being to be displayed near the beginning of a first sub-document of the portions in the different order, the destination location of the hyperlink being hyperlink pointing to a location of a particular portion of the content that is not at a beginning of the order defined by the serial data, and the destination location being determined based on the content of the serial data and without regard to the ordering of the portions.

37. (Previously Presented) The method of claim 36 also including receiving other requests for portions of the content of the document, and in response to the requests, returning other portions of the content using the reorganization information.

38. (Currently Amended) A data structure stored on a medium and capable of configuring a machine to respond to requests for portions of a document that is represented by serial data that includes contains content of the document and defines an order in which respective portions of the content are to be presented, the data structure comprising reorganization information that enables presentation of the portions in an order different from the order defined by the serial data, the reorganization information having been generated based on an analysis of the serial data by at least one transformation module to determine the different order of presentation, wherein the analysis of the serial data also includes applying a hyperlink to the portions of content, the application of the hyperlink being performed in response to determining that a location of the hyperlink is separated by at least a predetermined distance

~~from a destination location to which the hyperlink points, the reorganization information includes a hyperlink being to be displayed near the beginning of a first sub-document of the portions in the different order, the destination location of the hyperlink being hyperlink pointing to a location of a particular portion of the content that is not at a beginning of the order defined by the serial data, and the destination location being determined based on the content of the serial data and without regard to the ordering of the portions, the different order of presentation being adapted based upon a performance capability of a display of a target device.~~

39. (Original) The data structure of claim 38 also including the content, the data being expressed as a modified version of an original data structure that expressed the document.

40. (Original) The data structure of claim 39 in which the modified version includes annotations.

41. (Currently Amended) An apparatus comprising:
means for receiving an electronic document represented by serial data that contains content of the document and defines an order in which respective portions of the content are to be presented on a display for viewing,
means for analyzing the serial data of the electronic document, said means for analyzing comprising at least one transformation module to determine an order of presentation of the portions of the content different from the order defined by the serial data, the different order of presentation being adapted based upon a performance capability of a display of a target device,
and

means for generating reorganization information for use in delivering the portions of the content, the reorganization information enabling presentation of the portions in the different order, wherein generating the reorganization information includes applying a hyperlink to the portions of content, the application of the hyperlink being performed in response to determining that a location of the hyperlink is separated by at least a predetermined distance from a destination location to which the hyperlink points, the reorganization information includes a

hyperlink ~~being to be~~ displayed near the beginning of a first sub-document of the portions in the different order, the destination location of the hyperlink being hyperlink pointing to a location to a particular portion of the content that is not at a beginning of the order defined by the serial data, and the destination location being determined based on the content of the serial data and without regard to the ordering of the portions.

42. (Currently Amended) An apparatus comprising a machine configured to:
receive an electronic document represented by serial data that contains content of the document and defines an order in which respective portions of the content are to be presented on a display for viewing,

analyze the serial data of the electronic document to determine an order of presentation of the portions of the content different from the order defined by the serial data, and

generate reorganization information for use in delivering the portions of the content, the reorganization information enabling presentation of the portions in the different order, wherein being configured to generate reorganization information includes being configured to apply a hyperlink to the portions of content, the application of the hyperlink being performed in response to determining that a location of the hyperlink is separated by at least a predetermined distance from a destination location to which the hyperlink points, the reorganization information ~~includes a~~ hyperlink ~~being to be~~ displayed near the beginning of a first sub-document of the portions in the different order, the destination location of the hyperlink being hyperlink pointing to a location of a particular portion of the content that is not at a beginning of the order defined by the serial data, and the destination location being determined based on the content of the serial data and without regard to the ordering of the portions, the different order of presentation being adapted based upon a performance capability of a display of a target device.

43. (Previously Presented) The data structure of claim 38 in which the reorganization information associates a revised order for presentation with at least some of the portions of content.

44. (Canceled)

45. (Previously Presented) The data structure of claim 38 in which the reorganization information causes an automatic redirection from the first portion of the content to a later portion of the content when the document is opened for presentation.

46. (Previously Presented) The data structure of claim 38 in which the different order of presentation enabled by the reorganization information is adapted for a display that has a more restricted performance capability than does the performance capability of the display for which the document was originally designed.

47. (Previously Presented) The data structure of claim 46 in which the more restricted display is part of a mobile phone or personal digital assistant, and the display for which the document was originally designed comprises a desktop computer monitor.

48. (Previously Presented) The data structure of claim 38 in which presentation of the portions of the content comprises presenting the portions by speech synthesis.

49. (Previously Presented) The apparatus of claim 41 in which the different order of presentation enabled by the reorganization information is adapted for a display that has a more restricted performance capability than does the performance capability of the display for which the document was originally designed.

50. (Previously Presented) The apparatus of claim 49 in which the more restricted display is part of a mobile phone or personal digital assistant, and the display for which the document was originally designed comprises a desktop computer monitor.

51. (Previously Presented) The apparatus of claim 42 in which the different order of presentation enabled by the reorganization information is adapted for a display that has a more

restricted performance capability than does the performance capability of the display for which the document was originally designed.

52. (Previously Presented) The apparatus of claim 51 in which the more restricted display is part of a mobile phone or personal digital assistant, and the display for which the document was originally designed comprises a desktop computer monitor.

53. (Currently Amended) An apparatus comprising:
a display configured to present portions of content of an electronic document in an order different from an order defined by serial data representing the electronic document, the electronic document having been processed according to a method comprising:

receiving an electronic document represented by serial data that contains content of the document and defines an order in which respective portions of the content are to be presented on a display for viewing,

analyzing the serial data of the electronic document by at least one transformation module to determine an order of presentation of the portions of the content different from the order defined by the serial data, the different order of presentation being adapted based upon a performance capability of a display of a target device, and

generating reorganization information enabling presentation of the portions in the different order, wherein generating the reorganization information includes applying a hyperlink to the portions of content, the application of the hyperlink being performed in response to determining that a location of the hyperlink is separated by at least a predetermined distance from a destination location to which the hyperlink points, the reorganization information includes a hyperlink being to be displayed near the beginning of a first sub-document of the portions in the different order, the destination location of the hyperlink being hyperlink pointing to a location of a particular portion of the content that is not at a beginning of the order defined by the serial data, and the destination location being determined based on the content of the serial data and without regard to the ordering of the portions.

54. (Previously Presented) The apparatus of claim 53 in which the display of the apparatus for which the reorganization information enables the different order of presentation has a more restricted performance capability than does the performance capability of the display for which the document was originally designed.

55. (Previously Presented) The apparatus of claim 54 in which the apparatus comprises a mobile phone or personal digital assistant, and the display for which the document was originally designed comprises a desktop computer monitor.

56. (Currently Amended) A computer program product comprising at least one computer-readable storage medium having computer-readable program code portions stored therein, the computer-readable program code portions comprising:

a first executable portion for receiving an electronic document represented by serial data that contains content of the document and defines an order in which respective portions of the content are to be presented on a display for viewing,

a second executable portion for analyzing the serial data of the electronic document by at least one transformation module to determine an order of presentation of the portions of the content different from the order defined by the serial data, the different order of presentation being adapted based upon a performance capability of a display of a target device, and

a third executable portion for generating reorganization information for use in delivering the portions of the content, the reorganization information enabling presentation of the portions in the different order, wherein generating the reorganization information includes applying a hyperlink to the portions of content, the application of the hyperlink being performed in response to determining that a location of the hyperlink is separated by at least a predetermined distance from a destination location to which the hyperlink points, the reorganization information includes a hyperlink being to be displayed near the beginning of a first sub-document of the portions in the different order, the destination location of the hyperlink being hyperlink pointing to a location of a particular portion of the content that is not at a beginning of the order defined by the serial data, and the destination location being determined based on the content of the serial

data and without regard to the ordering of the portions.

57. (Previously Presented) The method of claim 1 in which the reorganization information includes an annotation, the annotation identifying a portion of content and causing the target device to start directly at the portion of content when a user requests the electronic document.